

Application No. 09/822,298
Amendment dated February 3, 2005
Reply to Office Action of November 3, 2004

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

1. (Currently Amended) A building having two or more rooms and air supply and return ducts comprising:
at least one room for providing a human life sustaining atmosphere in the face of a harmful airborne agent attack against said building, wherein said at least one room includes less than all of the rooms in the building, wherein said at least one room includes openings to accommodate the building air supply and return ducts,
an oxygen source,
a carbon dioxide scrubber, and
wherein said at least one room is substantially sealed off from said building air return and supply ducts, thereby sealing off said at least one room from air in the building that is outside of the at least one room, and wherein gaseous oxygen is added to said at least one room atmosphere by said oxygen source and gaseous carbon dioxide is removed from said at least one room atmosphere by said carbon dioxide scrubber.
2. (Original) A building as recited in claim 1, wherein said oxygen source is a gaseous oxygen generator.
3. (Currently Amended) A building as recited in claim 2, wherein said oxygen generator includes an exhaust tube and said exhaust tube has a terminal free end outside of said at least one room.
4. (Currently Amended) A building as recited in claim 3, wherein said at least one room has a plumbing fixture having a water trap and said oxygen generator exhaust tube exits said at least one room through said water trap.

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5. (Original) A building as recited in claim 1, wherein said oxygen source includes a chemical oxygen source.

6. (Original) A building as recited in claim 5, wherein said chemical source includes a chemical compound which generates gaseous oxygen in the presence of water.

7. (Original) A building as recited in claim 1, wherein a chemical air revitalization compound serves as both said oxygen source and said carbon dioxide scrubber.

8. (Original) A building as recited in claim 7, wherein said air revitalization compound includes potassium superperoxide.

9-31. (Canceled)

32. (Currently Amended) A building having air supply and return ducts connected to a heating, ventilating, and air conditioning (HVAC) system comprising:

an enclosure having one or more air supply and/or return ducts connected to the building HVAC system;

means for substantially sealing off the enclosure from the air supply and/or return ducts such that the enclosure is substantially sealed off from the building HVAC system;

means for providing oxygen to the enclosure; and

means for removing carbon dioxide from air;

wherein the oxygen providing means is coupled to the enclosure such that the gaseous oxygen can be added to the atmosphere within the enclosure, and the carbon dioxide removing means is coupled to the enclosure such that gaseous carbon dioxide can be removed from the atmosphere within the enclosure by the carbon dioxide removing means.

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33. (Previously presented) A building as recited in claim 32 wherein the oxygen providing means includes an exhaust tube having a terminal end outside of the enclosure.

34. (Previously presented) A building as in claim 33 wherein the enclosure includes a plumbing fixture having a water trap and the exhaust tube exits the room through the water trap.

35. (Previously presented) A building as in claim 32 wherein the enclosure includes a plumbing fixture having a water trap, wherein the oxygen providing means uses water from the plumbing fixture to provide oxygen.

36. (Currently Amended) A building having air supply and return ducts comprising:

an enclosure substantially sealed off from the air supply and return ducts, thereby sealing off said enclosure from air in the building that is outside of said enclosure, said enclosure having walls defined by the building;

an air revitalizing device adapted to remove carbon dioxide from air and provide oxygen to air;

wherein the air revitalizing device is provided in a manner allowing the air revitalizing compound to selectively remove carbon dioxide from air in the enclosure and provide oxygen to air in the enclosure.

37. (Previously presented) A building as in claim 36 wherein the air revitalizing device includes an air revitalizing compound that chemically removes carbon dioxide and generates oxygen.

38. (Previously presented) A building as in claim 37 wherein the compound includes potassium superperoxide.

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39. (Previously presented) A building as in claim 36 wherein the air revitalizing device includes an oxygen generator that electrolyzes water.

40. (Previously presented) A building as in claim 39 wherein the air revitalizing device includes an exhaust tube for discharging waste gas from the oxygen generator.

41. (Previously presented) A building as in claim 36 wherein the enclosure includes a plumbing fixture having a water trap, and wherein the air revitalizing device includes an exhaust port that discharges exhaust through via the plumbing fixture and past the water trap.

42. (Previously presented) A building as in claim 36 wherein the air revitalization device includes a carbon dioxide filter.

43. (Previously presented) A building as in claim 36 wherein the air revitalization device includes a carbon dioxide converter that converts carbon dioxide into oxygen and carbon monoxide.

44. (Currently Amended) A building as in claim 1 further comprising means for substantially sealing off the at least one room from the building air supply and return ducts.

45. (Currently Amended) A building having air return and supply ducts comprising:

at least one room that occupies less than all of the building interior for providing a human life sustaining atmosphere in the face of a harmful airborne agent attack against said building, wherein said room has walls defined by the building, and wherein the at least one room is supplied ventilation by said building air return and supply ducts, wherein said at least one room includes

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an oxygen source,
a carbon dioxide scrubber, and
wherein said room is substantially sealed off from said building air return and supply ducts, thereby sealing off said room from air in the building that is outside of the at least one room, and wherein gaseous oxygen is added to said room atmosphere by said oxygen source and gaseous carbon dioxide is removed from said room atmosphere by said carbon dioxide scrubber.

46. (Previously presented) A building as in claim 45, wherein said oxygen source is a gaseous oxygen generator.

47. (Previously presented) A building as in claim 45, wherein said oxygen source includes a chemical oxygen source.